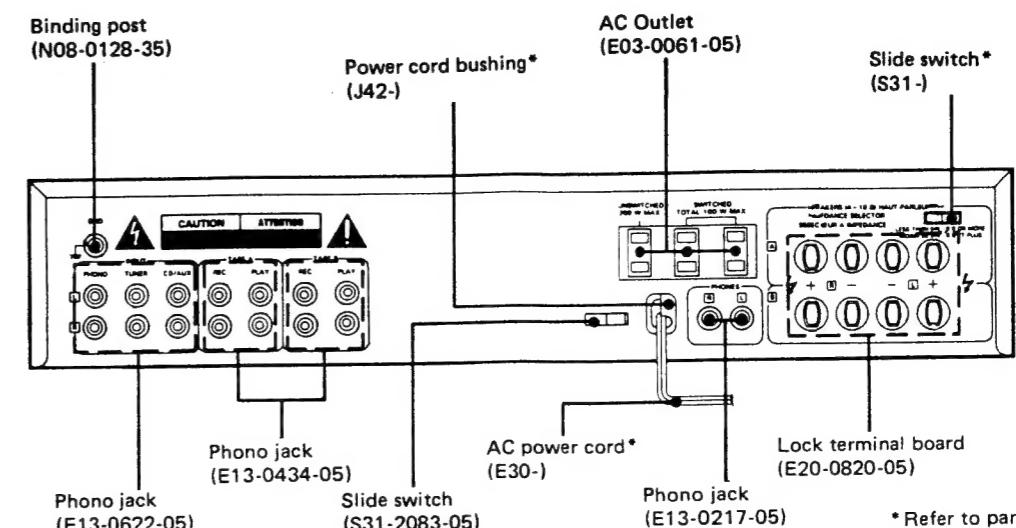


## EXTERNAL VIEW/ADJUSTMENT/REGLAGES/ABGLEICH



\* Refer to parts list on page 8 ~

## ADJUSTMENT

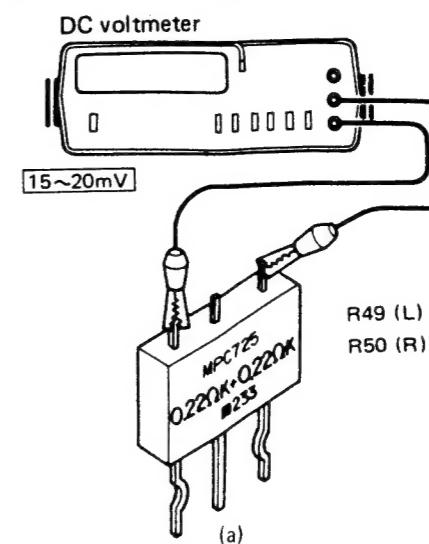
NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	IDLE CURRENT	—	Connect a DC voltmeter across R49 (R50)	VOLUME : 0	VR1 (L) VR2 (R)	15~20mV	(a)

## REGLAGES

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINTS L'ALIGNEMENT	ALIGNER POUR	FIG.
1	REGLAGE DU COURANT DE POLARISATION	—	Connecter un voltmètre CC Sur R49(R50)	VOLUME : 0	VR1 (G) VR2 (D)	15~20mV	(a)

## ABGLEICH

NR.	GEGENSTAND	EINGANGSEINSTELLUNG	AUSGANGSEINSTELLUNG	VORSTÄRKEREINSTELLUNG	ABGLEICH-PUNKTE	ABGEICHEN FÜR	ABB.
1	LEERLAUFSTROM	—	Einen Gleichspannungsmesser über R49(R50) anschließen	VOLUME : 0	VR1 (L) VR2 (R)	15~20mV	(a)

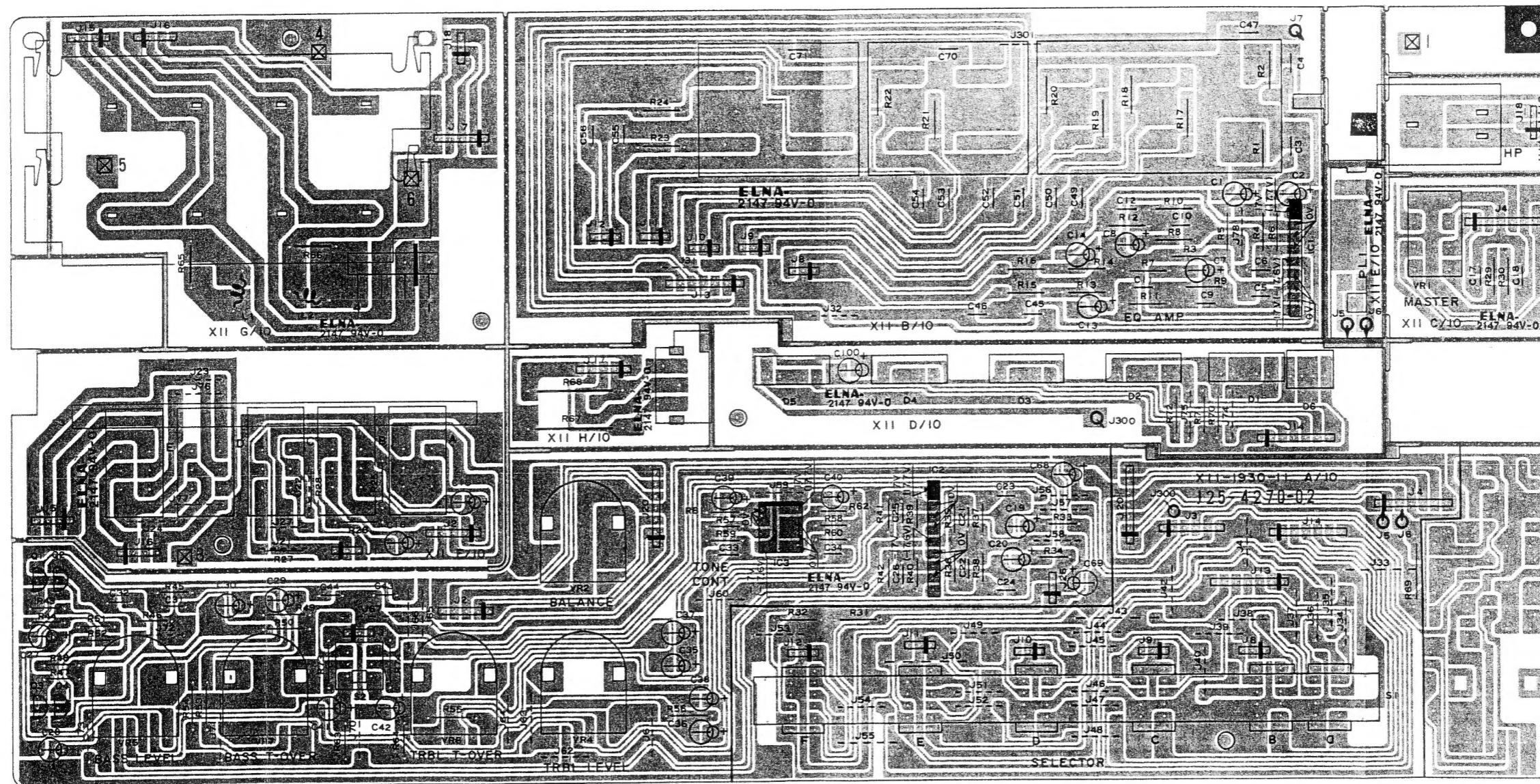


# KA-52/72 KA-52/72

## PC BOARD

TONE AMP (X11-1930-11) Component side view

( ) : KA-52



Refer to the schematic diagram for the values of resistors and capacitors.  
The PC board drawing is viewing from the side easy to check.

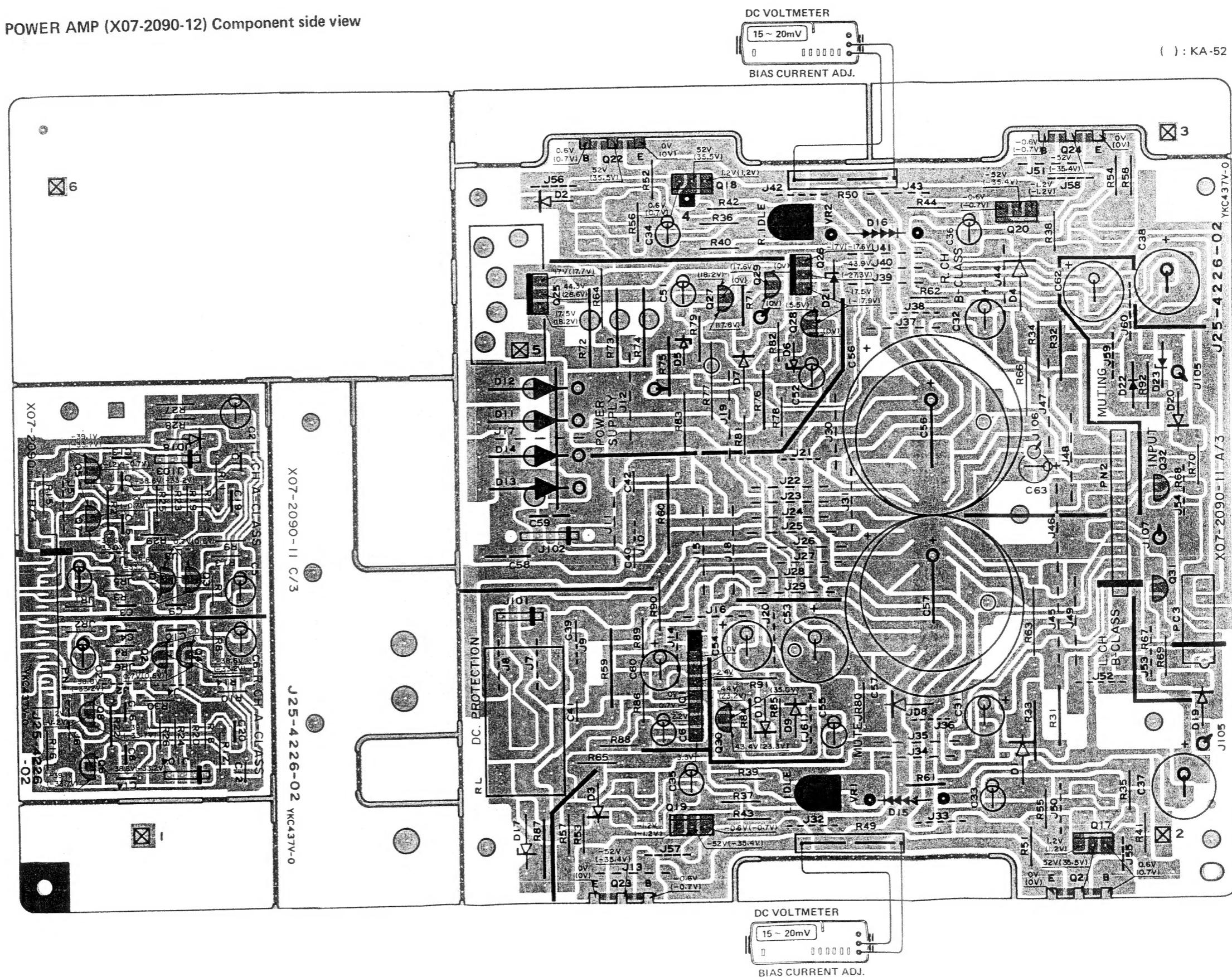
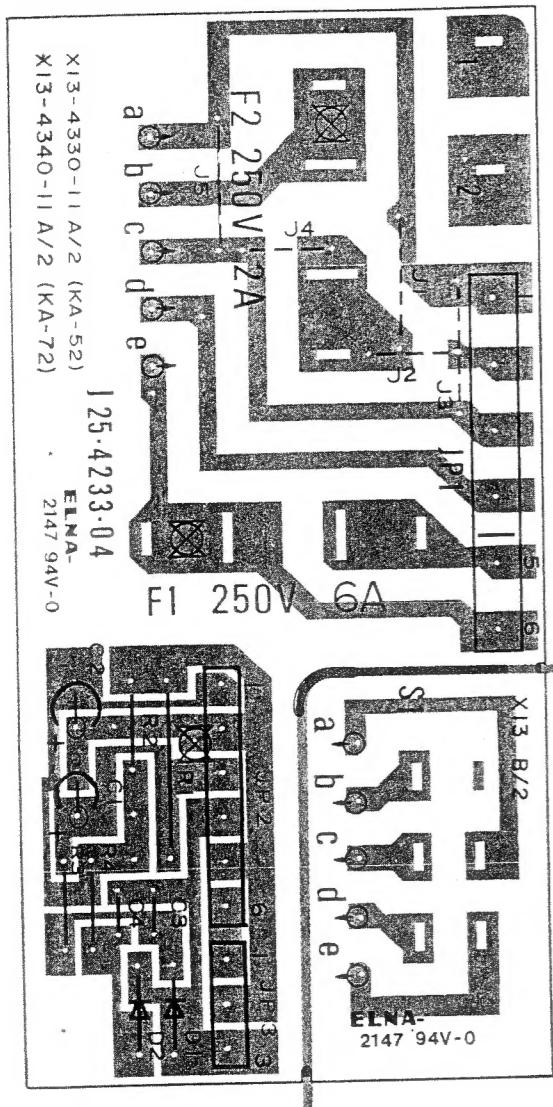
**KA-52/72**

PC BOARD

**POWER SUPPLY (X13-4340-11)**  
Component side view

POWER AMP (X07-2090-12) Component side view

( ) : KA-52

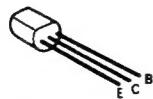


Refer to the schematic diagram for the values of resistors and capacitors. The PC board drawing is viewing from the side easy to check.

**KENWOOD**

# STEREO INTEGRATED AMPLIFIER

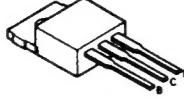
2SA992  
2SA999  
2SC1685  
2SC1845  
2SC2320  
2SC945



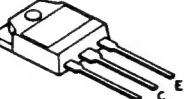
2SA1110



2SA957  
2SA2167



2SA1105  
2SC2580



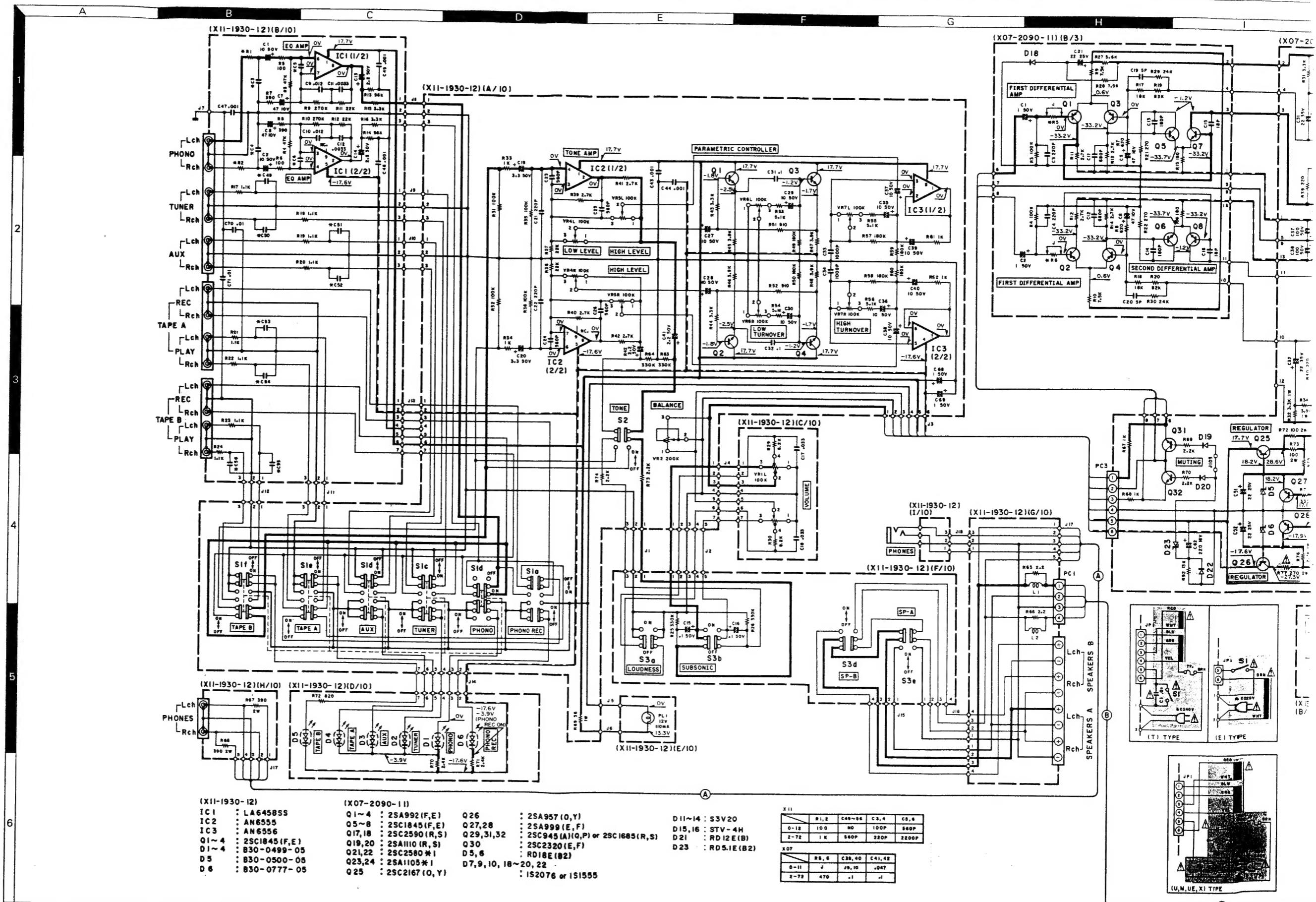
AN6555



LA6458SS



AN6556



(XII-1930-12)	(XO7-2090-11)
IC1 : LA645BSS	01~4 : 2SA992(F,E)
IC2 : AN6555	05~8 : 2SC1845(F,E)
IC3 : AN6556	017,18 : 2SC2590(R,S)
OI~4 : 2SC1845(F,E)	019,20 : 2SA110(R,S)
DI~4 : B30-0499-05	021,22 : 2SC2580*
D5 : B30-0500-05	023,24 : 2SA1105*
D6 : B30-0777-05	025 : 2SC2167(O,Y)

Q26	:	2SA957(O,Y)
Q27,28	:	2SA999(E,F)
Q29,31,32	:	2SC945(A)(Q,P)
Q30	:	2SC2320(E,F)
D5,6	:	RD18E(82)
D7,9,10,18~20,22	:	IS2076 or IS1555

D II~14 : S3V20  
 R,S) D15,16 : STV-4H  
 D21 : RD12E(B)  
 D23 : RD5.1E(B)

XII

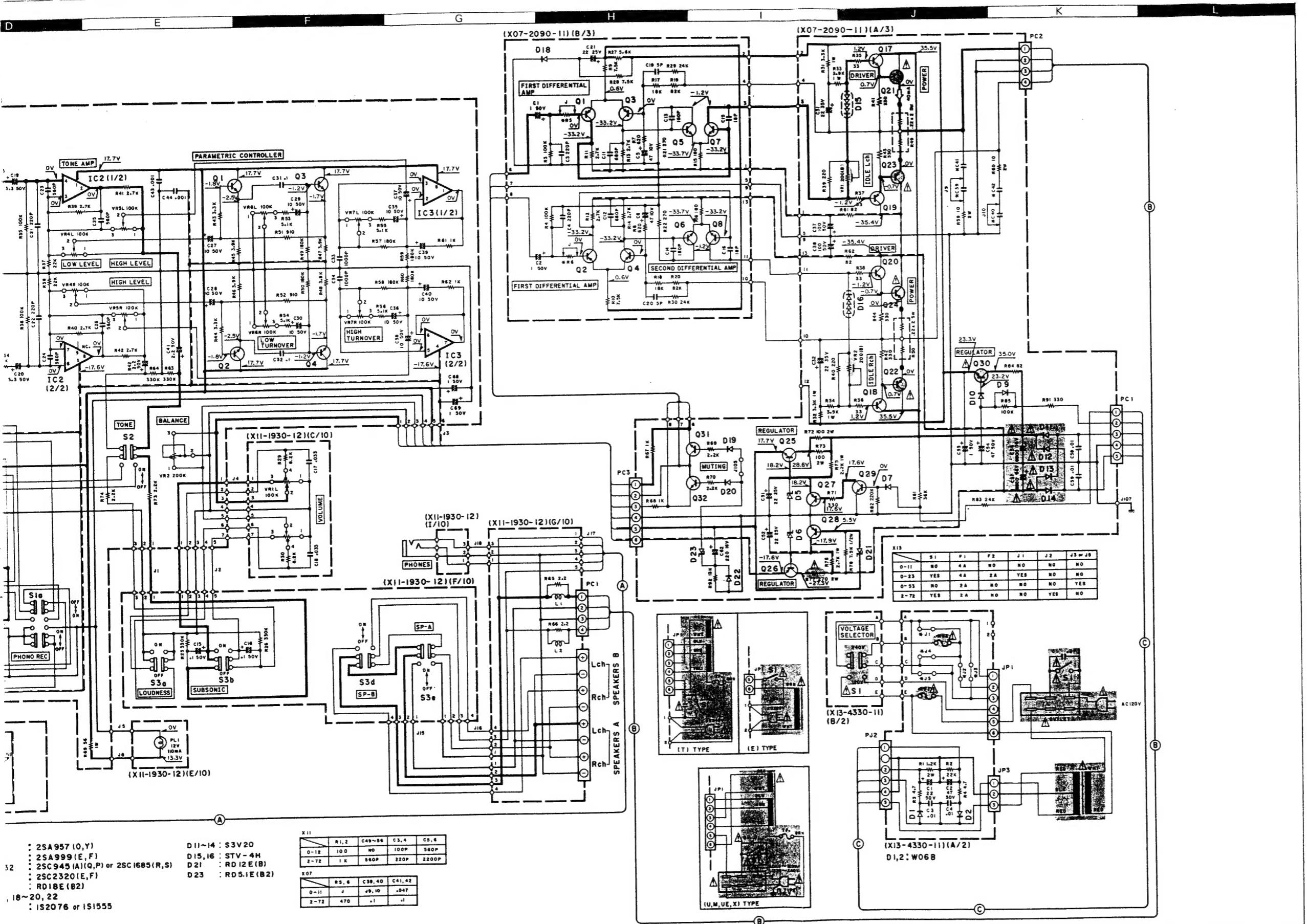
	R1,2	C49~86	C3,4	C8,9
--	------	--------	------	------

2-72	1 K	880P	220P
------	-----	------	------

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance

measurements shall be carry-  
ably insulated from the sup-  
plied to the customer.

## STEREO INTEGRATED AMPLIFIER



**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). **Δ**Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance

measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.



## SPECIFICATIONS

## Audio Section

**Power Output**  
50 watts\* per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.09% total harmonic distortion.

Both Channels Driven at 8 ohms,  
1 kHz ..... 55 W + 55 W

Dynamic Power Output at  
4 ohms ..... 250 W

**Total Harmonic Distortion**  
TUNER input to SPEAKER output  
(20 Hz to 20,000 Hz) ..... 0.09% at rated power  
into 8 ohms  
(20 Hz to 20,000 Hz) ..... 0.04% at 1/2 rated power  
into 8 ohms

**PHONO input to SPEAKER output (1 kHz)** ..... 0.04% at rated power with  
VOLUME -20 dB

**Intermodulation Distortion**  
(60 Hz:7 kHz = 4:1) ..... 0.02% at rated power  
into 8 ohms

**Damping Factor** ..... 20 (1 kHz into 8 ohms)  
**Power Bandwidth** ..... 10 Hz to 75 kHz  
at 0.2% T.H.D.

**Frequency Response** ..... 10 Hz to 100 kHz,  
+0 dB, -3 dB

**Input Sensitivity/Impedance**  
**Phono** ..... 2.5 mV/47 k ohms  
**Tuner, Tape** ..... 150 mV/27 k ohms

**Signal-to-Noise Ratio (IHF, A)**  
**Phono** ..... 73 dB for 2.5 mV input  
79 dB for 5.0 mV input  
**Tuner, Tape** ..... 101 dB for 150 mV input

**Phone Maximum Input Level** ..... 150 mV (RMS),  
T.H.D. 0.05% at 1,000 Hz

**Output Level/Impedance**  
**Tape REC (Pin)** ..... 150 mV/3.3 k ohms  
**Phone Frequency Response** ..... RIAA standard curve ±0.5 dB  
(30 Hz to 20,000 Hz)

**Tone Control**  
**Bass** ..... ±8 dB at 100 Hz  
(Turn over 100 Hz ~ 1 kHz)  
**Treble** ..... ±8 dB at 10 kHz  
(Turn over 1 kHz ~ 10 kHz)

**Loudness Control** ..... +9 dB at 100 Hz  
(at -30 dB VOLUME Level)

**General**  
**Power Requirements** ..... 60 Hz 120 V (U.S.A. & Canada  
models), 50 Hz 240 V (U.K. model)  
or 50/60 Hz 110 ~ 120 V/  
220 ~ 240 V, switchable

**Power Consumption** ..... 185 W (UL and CSA)  
350 W (European countries,  
U.K., Australia)  
170 W (Others)

**A.C. Outlet** ..... Switched 2, Unswitched 1  
**Dimensions** ..... W 420 mm (16-17/32")  
H 89 mm (3-1/2")  
D 279 mm (11")

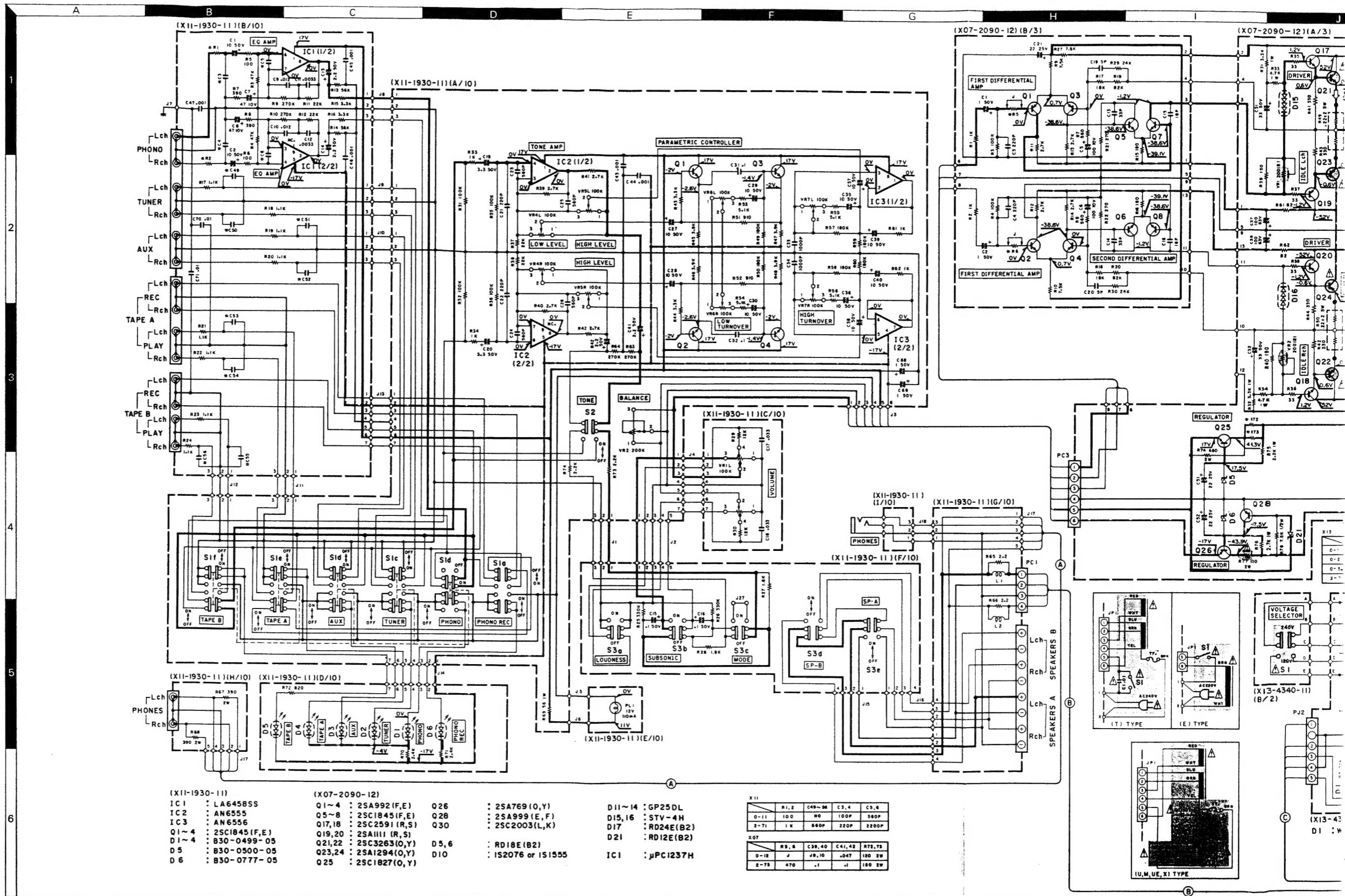
**Weight** ..... 6.5 kg (14.3 lb)

\* Measured pursuant to Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier in U.S.A.

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

**KENWOOD**

# **STEREO INTEGRATED AMPLIFIER**



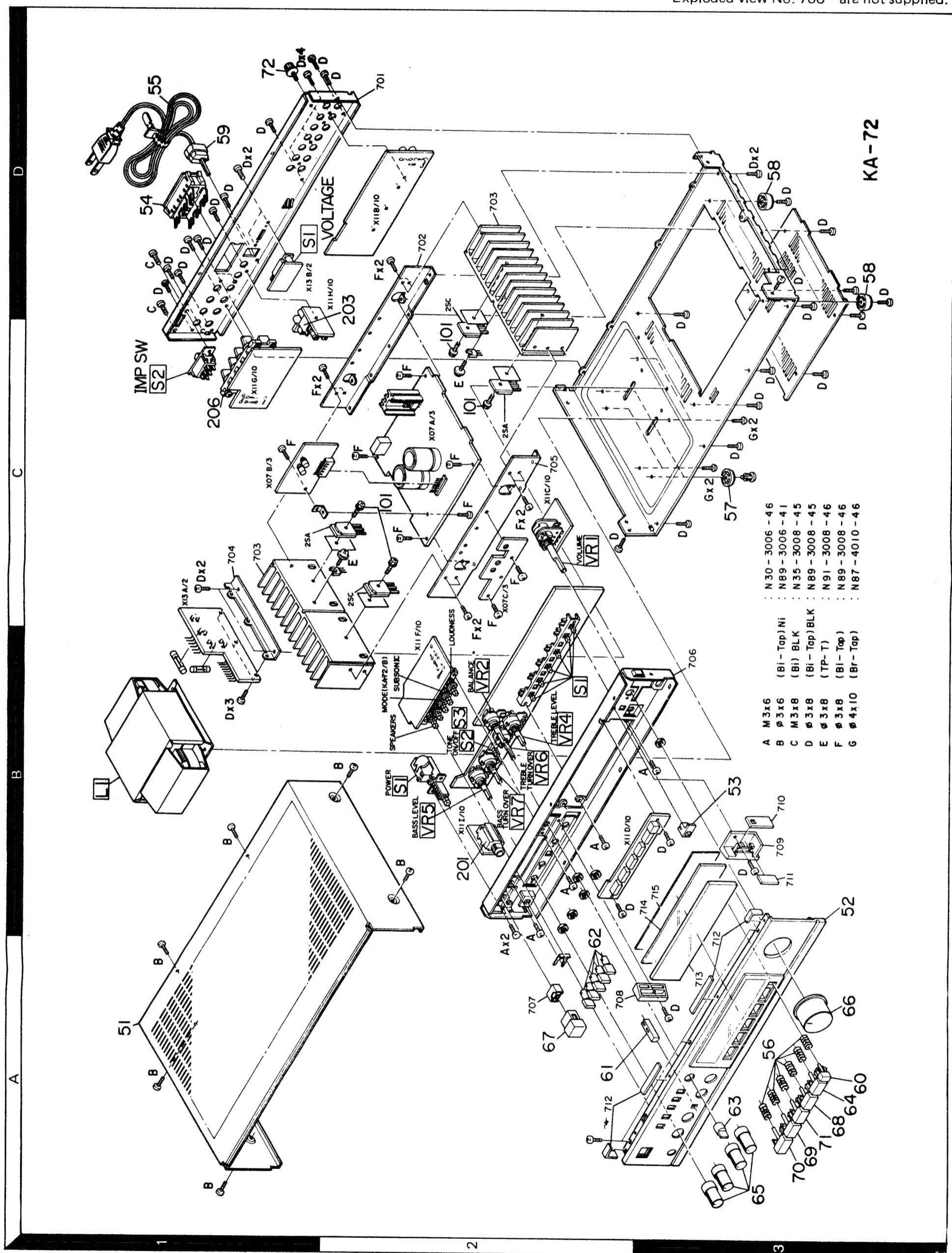
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance

measurements shall be carried out (exposed parts insulated from the supply circuit) before returned to the customer.



## EXPLODED VIEW

Exploded view No. 700~ are not supplied.



## PARTS LIST

\* New Parts

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Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
KA-52						
51	1A		A01-0648-02	METALLIC CABINET	KPUM	
51	1A		A01-0648-02	METALLIC CABINET	UEX	
51	1A		A01-0649-02	METALLIC CABINET	TE	
52	3B	*	A20-3667-03	PANEL ASSY	KPUM	
52	3B	*	A20-3667-03	PANEL ASSY	UEXE	
52	3B	*	A20-3668-03	PANEL ASSY	T	
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0093-03	WARRANTY CARD	P	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0097-03	WARRANTY CARD	T	
-			B46-0098-03	WARRANTY CARD	E	
-			B50-5018-00	INSTRUCTION MANUAL (E)	KPUM	
-			B50-5018-00	INSTRUCTION MANUAL (E)	UE	
-			B50-5019-00	INSTRUCTION MANUAL (F)	PMXE	
-			B50-5020-00	INSTRUCTION MANUAL (E)	T	
-			B50-5021-00	INSTRUCTION MANUAL (G,D,I,SW)	E	
-			B50-5027-00	INSTRUCTION MANUAL (SP,E)	M	
-			B59-0092-00	SERVICE DIRECTORY	UUE	
△ C3			C91-0023-00	CERAMIC COUPLED	AC250V	UMUEX
△ C4			C91-0024-00	CERAMIC COUPLED	P	KP
53	3B		D22-0050-04	SHAFT COUPLING		
△ 54	1D		E03-0061-05	AC OUTLET	KPUM	
△ 54	1D		E03-0061-05	AC OUTLET	UEX	
△ 55	1D		E30-01B1-05	AC POWER CORD	K	
△ 55	1D		E30-0459-05	AC POWER CORD	E	
△ 55	1D		E30-0587-05	AC POWER CORD	T	
△ 55	1D		E30-0649-05	AC POWER CORD	X	
△ 55	1D		E30-0749-05	AC POWER CORD	P	
△ 55	1D		E30-10C1-05	AC POWER CORD	UMUE	
56	3A		G01-1438-04	COMPRESSION SPRING		
-		*	H01-4971-04	ITEM CARTON CASE	T	
-		*	H01-4972-04	ITEM CARTON CASE	KPUM	
-		*	H01-4972-04	ITEM CARTON CASE	UEXE	
-			H10-1706-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0078-04	PROTECTION BAG		
57	3C		J02-0109-05	FOOT		
58	3D		J02-0129-05	FOOT		
△ 59	1D		J42-0083-05	POWER CORD BUSHING	KPUM	
△ 59	1D		J42-0083-05	POWER CORD BUSHING	UETE	
△ 59	1D		J42-0083-05	POWER CORD BUSHING	X	
60	3A		K27-1060-04	KNOB (BUTTON) PHONO REC		
61	2A		K27-1061-04	KNOB (BUTTON) PUSH		
62	2A		K27-1112-04	KNOB (BUTTON) SPEAKERS		
63	3B		K29-1230-04	KNOB	BALANCE	
64	3A		K29-1351-04	KNOB ASSY	PHONO	
65	3A		K29-1352-04	KNOB	TONE	
66	3A		K29-1354-04	KNOB	VOLUME	
67	2A		K29-1446-04	KNOB ASSY	POWER	

E: Scandinavia &amp; Europe H: Audio Club K: USA

P: Canada

S: South Africa

T: England

U: PX(Far East, Hawaii)

UE : AAFES(Europe)

X: Australia

M: Other Areas

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68	3A		K29-1449-04	KNOB ASSY TUNER		
69	3A		K29-1451-04	KNOB ASSY TAPE A		
70	3A		K29-1452-04	KNOB ASSY TAPE B		
71	3A		K29-1487-04	KNOB ASSY AUX		
△ C1	1B	*	L01-3401-05	POWER TRANSFORMER	KP	
△ L1	1B	*	L01-3402-05	POWER TRANSFORMER	E	
△ L1	1B	*	L01-3406-05	POWER TRANSFORMER	UE	
△ L1	1B	*	L01-3406-05	POWER TRANSFORMER	EX	
72	1D		N08-0128-35	BINDING POST	T	
△ S1	2B		S40-1066-05	PUSH SWITCH (POWER TYPE)		
KA-52B						
51	1A		A01-0690-02	METALLIC CABINET		
52	3B	*	A20-3797-03	PANEL ASSY	KPUM	
52	3B	*	A20-3797-03	PANEL ASSY	UEXE	
52	3B	*	A20-3798-03	PANEL ASSY	T	
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0093-03	WARRANTY CARD	P	
-			B46-0094-03	WARRANTY CARD	UE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0097-03	WARRANTY CARD	T	
-			B46-0098-03	WARRANTY CARD	E	
-			B50-5018-00	INSTRUCTION MANUAL (E)	KPUM	
-			B50-5018-00	INSTRUCTION MANUAL (E)	UE	
-			B50-5019-00	INSTRUCTION MANUAL (F)	PMXE	
-			B50-5020-00	INSTRUCTION MANUAL (E)	T	
-			B50-5021-00	INSTRUCTION MANUAL (G,D,I,SW)	E	
-			B50-5027-00	INSTRUCTION MANUAL (SP,E)	M	
-			B59-0092-00	SERVICE DIRECTORY	UUE	
△ C1			C91-0023-05	CERAMIC CAPACITOR AC250V	UEDEX	
△ C1			C91-0647-05	CERAMIC CAPACITOR 0.01UF P	KP	
53	3B		D22-0050-04	SHAFT COUPLING		
△ 54	1D		E03-0061-05	AC OUTLET	KPUM	
△ 54	1D		E03-0061-05	AC OUTLET	UEX	
△ 55	1D		E30-0181-05	AC POWER CORD	K	
△ 55	1D		E30-0459-05	AC POWER CORD	E	
△ 55	1D		E30-0587-15	AC POWER CORD	T	
△ 55	1D		E30-0649-05	AC POWER CORD	X	
△ 55	1D		E30-0780-05	AC POWER CORD	P	
△ 55	1D		E30-0812-05	AC POWER CORD	UE	
56	3A		G01-1438-04	COMPRESSION SPRING		
-		*	H01-5027-04	ITEM CARTON CASE	KPUM	
-		*	H01-5027-04	ITEM CARTON CASE	UEXE	
-		*	H01-5028-04	ITEM CARTON CASE	T	
-			H10-1706-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0078-04	PROTECTION BAG		
57	3C		J02-0109-05	FOOT		
58	3D		J02-0129-05	FOOT		
△ 59	1D		J42-0083-05	POWER CORD BUSHING	KPUM	
△ 59	1D		J42-0083-05	POWER CORD BUSHING	UETE	
△ 59	1D		J42-0085-05	POWER CORD BUSHING	X	

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60	3A	*	K27-1164-04	KNOB (BUTTON) PHONO REC		
61	2A	*	K27-1153-04	KNOB (BUTTON) PUSH		
62	2A		K27-0965-04	KNOB (BUTTON) SPEAKERS		
63	3B		K29-1518-04	KNOB BALANCE		
64	3A	*	K29-1511-04	KNOB ASSY PHONO		
65	3A	*	K29-1516-04	KNOB TONE		
66	3A		K29-1517-04	KNOB VOLUME		
67	2A		K29-1446-04	KNOB ASSY POWER		
68	3A	*	K29-1512-04	KNOB ASSY TUNER		
69	3A	*	K29-1514-04	KNOB ASSY TAPE A		
70	3A	*	K29-1515-04	KNOB ASSY TAPE B		
71	3A	*	K29-1513-04	KNOB ASSY AUX		
△ L1	1B		LD12-3401-05	POWER TRANSFORMER	KP	
△ L2	1B		LD12-3402-05	POWER TRANSFORMER	E	
△ L3	1B		LD12-3403-05	POWER TRANSFORMER	UMEX	
△ L4	1B		LD12-3404-05	POWER TRANSFORMER	T	
72	1D		N08-0128-35	BINDING POST		
△ S1	2E		S40-0106-05	PUSH SWITCH (POWER TYPE)		
POWER AMP (X07-2090-11)						
C1 ,2			CEO4FW1H010M	ELECTRO 1UF	50WV	
C3 ,4			CC45FSL1H221J	CERAMIC 220PF	J	
C5 ,6			CEO4FW1A470M	ELECTRO 47UF	10WV	
C11 ,12			CK45FB1H681K	CERAMIC 680PF	K	
C13 ,14			CC45FSL1H181J	CERAMIC 180PF	J	
C15 ,16			CC45FSL1H180J	CERAMIC 18PF	J	
C19 ,20			CC45FSL1H050C	CERAMIC 5.0PF	C	
C21			CEO4FW1E220M	ELECTRO 22UF	25WV	
C31 ,32			CEO4FW1V220M	ELECTRO 22UF	35WV	
C37 ,38			CEO4FW1H101M	ELECTRO 100UF	50WV	
C39 ,42			CF92FV1H104J	MF 0.10UF	J	
C41 ,42			CF92FV1H473J	MF 0.047UF	J	
C41 ,42			CF92FV1H473J	MF 0.047UF	J	
C51 ,52			CEO4FW1E220M	ELECTRO 22UF	25WV	
C54			CEO4FW1H470M	ELECTRO 47UF	50WV	
C55			CEO4FW1H010M	ELECTRO 1UF	50WV	
△ C56 ,57			CE04FW1H010M	ELECTRO 6800UF	50WV	
C58 ,59			CK45E2H103P	CERAMIC 0.01UF	P	
C62			CEO4FW1C221M	ELECTRO 220UF	16WV	
101	2C		N09-0333-05	TAPPING SCREW		
R15 ,16		*	RD14AB2E181J	FL-PROOF RD 180	J 2E	
R21 ,22			RD14GB2E271J	FL-PROOF RD 270	J 2E	
R31 ,32			RS14GB3A332J	FL-PROOF RS 3.3K	J 3A	
R33 ,34			RS14GB3A392J	FL-PROOF RS 3.9K	J 3A	
R35			RD14GB2E330J	FL-PROOF RD 33	J 2E	
R36		*	RD14AB2E330J	FL-PROOF RD 33	J 2E	
R37			RD14GB2E330J	FL-PROOF RD 33	J 2E	
R38		*	RD14AB2E330J	FL-PROOF RD 33	J 2E	
R39 ,40		*	RD14AB2E221J	FL-PROOF RD 220	J 2E	
R41		*	RD14AB2E331J	FL-PROOF RD 330	J 2E	
R42			RD14GB2E331J	FL-PROOF RD 330	J 2E	
R43 ,44		*	RD14AB2E331J	FL-PROOF RD 330	J 2E	
R49 ,50			R90-0187-05	MULTI-COMP 0.22X2	K 3H	

E: Scandinavia &amp; Europe H: Audio Club K: USA

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R59 ,60 R61 ,62 R72 ,73 R75 R76		*	RS14GB3D100J RD14AB2E820J RS14GB3D101J RS14GB3A222J RS14GB3A272J	FL-PROOF RS 10 FL-PROOF RD 82 FL-PROOF RS 100 FL-PROOF RS 2. 2K FL-PROOF RS 2. 7K	J 3D J 2E J 3D J 3A J 3A	
▲ R77 R78 R84 VR1 ,2		*	RS14GB3D271J RD14GB2H752J RD14AB2E820J R12-0087-05	FL-PROOF RS 270 FL-PROOF RD 7. 5K FL-PROOF RD 82 TRIMMING POT. 200(B) BIAS	J 3D J 2H J 2E	
D5 ,6 D7 D7 D9 ,10 D9 ,10		*	RD18E(B2) 1S1555 1S2076 1S1555 1S2076	ZENER DIODE DIODE DIODE DIODE DIODE		
▲ D11 ,14 D15 ,16 D18 ,20 D18 ,20 D21			S3V20 STV-4H 1S1555 1S2076 RD12E(B2)	DIODE VARISTOR DIODE DIODE ZENER DIODE		
D22 D22 D23 Q1 ,4 Q5 ,8			1S1555 1S2076 RD5. 1E(B2) 2SA992(F,E) 2SC1845(F,E)	DIODE DIODE ZENER DIODE TRANSISTOR (1ST AMP) TRANSISTOR (2ND AMP)		
Q17 ,18 Q19 ,20			2SC2590(R,S) 2SA1110(R,S)	TRANSISTOR (DRIVER) TRANSISTOR (DRIVER)		
▲ Q21 ,22 Q23 ,24 Q25			2SC2580*1 2SA1105*1 * 2SC2167(Q,Y)	TRANSISTOR (POWER) TRANSISTOR (POWER) TRANSISTOR (REGULATOR)		
Q26 Q27 ,28 Q29 Q29		*	2SA957(Q,Y) 2SA999(E,F) 2SC1685(R,S) 2SC945(A)(Q,P)	TRANSISTOR (REGULATOR) TRANSISTOR (POWER SUPPLY CONT.) TRANSISTOR (MUTE DRIVE) TRANSISTOR (MUTE DRIVE)		
▲ Q30			2SC2320(E,F)	TRANSISTOR (REGULATOR)		
Q31 ,32 Q31 ,32			2SC1685(R,S) 2SC945(A)(Q,P)	TRANSISTOR (MUTING) TRANSISTOR (MUTING)		

### TONE AMP (X11-1930-12)

D1 ,4 D5 D6 PL1		B30-0499-05 B30-0500-05 B30-0777-05 B30-0372-05	LED (SELECTOR) LED (TAPE B) LED (PHONE REC) LAMP (POWER) 12V 0. 11A			
C1 ,2 C3 ,4 C3 ,4 C3 ,4 C5 ,6		CEO4FW1H100M CC45FSL1H101J CC45FSL1H101J CC45FSL1H221J CK45FB1H222K	ELECTRO 10UF CERAMIC 100PF CERAMIC 100PF CERAMIC 220PF CERAMIC 2200PF	K 50WV J J J K	KPUM UEX TE TE	
C5 ,6 C5 ,6 C7 ,8 C9 ,10 C11 ,12		CK45FB1H561K CK45FB1H561K CEO4FW1A470M CF92FV1H123J CF92FV1H332J	CERAMIC 560PF CERAMIC 560PF ELECTRO 47UF MF 0. 012UF MF 3300PF	K K 10WV J J	KPUM UEX	
C13 ,14 C15 ,16 C17 ,18		CEO4FW1H2R2M CEO4FW1HOR1M CF92FV1H333J	ELECTRO 2. 2UF ELECTRO 0. 1UF MF 0. 033UF	50WV 50WV J		

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C19 ,20			CE04FW1H3R3M	ELECTRO	3.3UF	50WV		
C21 ,22			CC45FSL1H221J	CERAMIC	220PF	J		
C23 ,26			CK45FB1H561K	CERAMIC	560PF	K		
C27 ,30			CE04FW1H100M	ELECTRO	10UF	50WV		
C31 ,32			CF92FV1H104J	MF	0.10UF	J		
C33 ,34			CK45FB1H102K	CERAMIC	0.001UF	K		
C35 ,40			CE04FW1H100M	ELECTRO	10UF	50WV		
C41 ,42			CE04FW1H2R2M	ELECTRO	2.2UF	50WV		
C43 ,47			CK45FF1H103Z	CERAMIC	0.01UF	Z		
C49 ,56			CK45FB1H561K	CERAMIC	560PF	K	TE	
C68 ,69			CE04FW1H010M	ELECTRO	1UF	50WV		
C70 ,71			CK45FF1H103Z	CERAMIC	0.01UF	Z		
201	2B		E11-0135-05	PHONE JACK (HEADPHONE)				
203	1C		E13-0217-05	PHONE JACK (2P)				
206	1C		E20-0820-05	LOCK TERMINAL BOARD (SPEAKERS)				
-			E13-0434-05	PHONE JACK (4P)				
-			E13-0622-05	PHONE JACK (6P)				
L1 ,2			L39-0085-05	PHASE-COMPENSATION COIL				
R65 ,66			RD14GB2E2R2J	FL-PROOF RD	2.2	J 2E		
R67 ,68			RS14GB3D391J	FL-PROOF RS	390	J 3D		
R69			RS14GB3A560J	FL-PROOF RS	56	J 3A		
VR1			R06-5087-05	POTENTIOMETER	100K(B)	VOLUME		
VR2			R01-5041-05	POTENTIOMETER	200K(W)	BALANCE		
VR4 ,5	*		R06-5116-05	POTENTIOMETER	100K	TONE		
VR6 ,7	*		R06-5117-05	POTENTIOMETER	100K	TURNOVER		
S1	*		S42-6016-05	MULTIPLE PUSH SWITCH	SELECTOR			
S2	*		S40-2323-05	PUSH SWITCH	(TONE)			
S3	*		S42-4035-05	PUSH SW.	(MODE, SP, LOUD, SUBSONIC)			
IC1			LA645855	IC (EQ AMP)				
IC2			AN6555	IC (TONE AMP)				
IC3			AN6556	IC (TONE AMP)				
Q1 -4			2SC1845(F,E)	TRANSISTOR	(CONTROLLER)			

## POWER SUPPLY (X13-4330-11)

C1			CEO4W1H220M	ELECTRO	22UF	50WV	KPUM	
C1			CEO4W1H220M	ELECTRO	22UF	50WV	UEXT	
C1 ,2			CEO4W1H470M	ELECTRO	47UF	50WV	E	
C2			CEO4W1H470M	ELECTRO	47UF	50WV	KPUM	
C2			CEO4W1H470M	ELECTRO	47UF	50WV	UEXT	
C3 ,4			CK45F1H103Z	CERAMIC	0.01UF	Z		
△ F1			F05-4022-05	FUSE			UMUEX	
△ F1			F06-2021-05	FUSE (SEMKO)			E	
△ F1			F06-4024-05	FUSE (UL)			KP	
△ F2			F05-2023-05	FUSE			UMUEX	
△ F2			F06-2021-05	FUSE (SEMKO)			T	
-			J13-0041-05	FUSE CLIP			UMUEX	
-			J13-0055-05	FUSE CLIP			KPTE	
R1			RS14GB3D122J	FL-PROOF RS	1.2K	J 3D		
R3 ,4			RD14GB2E4R7J	FL-PROOF RD	4.7	J 2E		
△ S1			S30-2000-15	SLIDE SWITCH (POWER VOLTAGE)			UMUEX	
D1 ,2			WD6B	DIODE				

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KA-72						
51	1A		A01-0648-02	METALLIC CABINET	KPUM	
51	1A		A01-0648-02	METALLIC CABINET	UEX	
51	1A		A01-0649-02	METALLIC CABINET	TE	
52	3B	*	A20-3662-03	PANEL ASSY	KPUM	
52	3B	*	A20-3662-03	PANEL ASSY	UEXE	
52	3B	*	A20-3663-03	PANEL ASSY	T	
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0093-03	WARRANTY CARD	P	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0097-03	WARRANTY CARD	T	
-			B46-0098-03	WARRANTY CARD	E	
-		*	B50-5018-00	INSTRUCTION MANUAL (E)	KPUM	
-		*	B50-5018-00	INSTRUCTION MANUAL (E)	UE	
-		*	B50-5019-00	INSTRUCTION MANUAL (F)	PMXE	
-		*	B50-5020-00	INSTRUCTION MANUAL (E)	T	
-		*	B50-5021-00	INSTRUCTION MANUAL (G,D,I,SW)	E	
-		*	B50-5027-00	INSTRUCTION MANUAL (SP,E)	M	
-			B59-0092-00	SERVICE DIRECTORY	UUE	
△ C1			C91-0023-05	CERAMIC 0.01UF AC250V	UMUEX	
△ C1			C91-0647-05	CERAMIC 0.01UF P	KP	
53	3B	*	D22-0050-04	SHAFT COUPLING		
△ 54	1D		E03-0061-05	AC OUTLET	KPUM	
△ 54	1D		E03-0061-05	AC OUTLET	UEX	
△ 55	1D		E30-0181-05	AC POWER CORD	K	
△ 55	1D		E30-0459-05	AC POWER CORD	E	
△ 55	1D		E30-0587-15	AC POWER CORD	T	
△ 55	1D		E30-0649-05	AC POWER CORD	X	
△ 55	1D		E30-0780-05	AC POWER CORD	P	
△ 55	1D		E30-0812-05	AC POWER CORD	UMUE	
56	3A	*	G01-1438-04	COMPRESSION SPRING		
-		*	H01-4969-04	ITEM CARTON CASE	T	
-		*	H01-4970-04	ITEM CARTON CASE	KPUM	
-		*	H01-4970-04	ITEM CARTON CASE	UEXE	
-			H10-1706-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0078-04	PROTECTION BAG		
57	3C		J02-0109-05	FOOT		
58	3D		J02-0129-05	FOOT		
△ 59	1D		J42-0083-05	POWER CORD BUSHING	KPUM	
△ 59	1D		J42-0083-05	POWER CORD BUSHING	UETE	
△ 59	1D		J42-0085-05	POWER CORD BUSHING	X	
60	3A	*	K27-1060-04	KNOB (BUTTON) PHONO REC		
61	2A	*	K27-1061-04	KNOB (BUTTON) PUSH		
62	2A		K27-1112-04	KNOB (BUTTON) SPEAKERS		
63	3B		K29-1230-04	KNOB BALANCE		
64	3A	*	K29-1351-04	KNOB ASSY PHONO		
65	3A	*	K29-1352-04	KNOB TONE		
66	3A		K29-1354-04	KNOB VOLUME		
67	2A		K29-1446-04	KNOB ASSY POWER		

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68	3A	*	K29-1449-04	KNOB ASSY	TUNER	
69	3A	*	K29-1451-04	KNOB ASSY	TAPE A	
70	3A	*	K29-1452-04	KNOB ASSY	TAPE B	
71	3A	*	K29-1487-04	KNOB ASSY	AUX	
△ L1	1B	*	L01-3391-05	POWER TRANSFORMER	K	
△ L1	1B	*	L01-3392-05	POWER TRANSFORMER	E	
△ L1	1B	*	L01-3396-05	POWER TRANSFORMER	UUE	X
△ L1	1B	*	L01-3397-05	POWER TRANSFORMER	T	
△ L1	1B	*	L01-3397-05	POWER TRANSFORMER	P	
72	1D		N08-0128-35	BINDING POST		
△ S1	2B		S40-1073-05	PUSH SWITCH (POWER)	UMUE	
△ S2	1D		S31-2001-05	SLIDE SWITCH (IMP SW)	TE	
△ S2	1D		S31-2001-05	SLIDE SWITCH (IMP SW)	KP	
△ S2	1D		S31-2068-05	SLIDE SWITCH (IMP SW)		

## KA-72B

51	1A		A01-0690-02	METALLIC CABINET	KPUM	
52	3B	*	A20-3801-03	PANEL ASSY	UEXE	
52	3B	*	A20-3801-03	PANEL ASSY	T	
52	3B	*	A20-3802-03	PANEL ASSY		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0093-03	WARRANTY CARD	P	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0097-03	WARRANTY CARD	T	
-			B46-0098-03	WARRANTY CARD	E	
-			B50-5018-00	INSTRUCTION MANUAL (E)	KPUM	
-			B50-5018-00	INSTRUCTION MANUAL (E)	UE	
-			B50-5019-00	INSTRUCTION MANUAL (F)	PMXE	
-			B50-5020-00	INSTRUCTION MANUAL (E)	T	
-			B50-5021-00	INSTRUCTION MANUAL (G,D,I,SW)	E	
-			B50-5027-00	INSTRUCTION MANUAL (SP,E)	M	
-			B59-0092-00	SERVICE DIRECTORY	UUE	
△ C1			C91-0023-05	CERAMIC D.01UF AC250V	UMUE	
△ C1			C91-0642-05	CERAMIC D.01UF P	KP	
53	3B		D22-0050-04	SHAFT COUPLING		
△ 54	1D		E03-0061-05	AC OUTLET	KPUM	
△ 54	1D		E03-0061-05	AC OUTLET	UEX	
△ 55	1D		E30-0181-05	AC POWER CORD	K	
△ 55	1D		E30-0459-05	AC POWER CORD	E	
△ 55	1D		E30-0587-15	AC POWER CORD	T	
△ 55	1D		E30-0649-05	AC POWER CORD	X	
△ 55	1D		E30-0780-05	AC POWER CORD	P	
△ 55	1D		E30-0817-05	AC POWER CORD	UMUE	
56	3A		G01-1438-04	COMPRESSION SPRING		
-		*	H01-5029-04	ITEM CARTON CASE	KPUM	
-		*	H01-5029-04	ITEM CARTON CASE	UEXE	
-		*	H01-5030-04	ITEM CARTON CASE	T	
-			H10-1706-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0078-04	PROTECTION BAG		
57	3C		J02-0109-05	FOOT		

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58	3D		J02-0129-05	FOOT				
△ 59	1D		J42-0083-05	POWER CORD BUSHING			KPUM	
△ 59	1D		J42-0083-05	POWER CORD BUSHING			UETE	
△ 59	1D		J42-0085-05	POWER CORD BUSHING			X	
-			J21-3326-05	JACK MOUNTING HARDWARE				
60	3A		K27-1060-04	KNOB (BUTTON) PHONO REC				
61	2A		K27-1153-04	KNOB (BUTTON) PUSH				
62	2A		K27-0965-04	KNOB (BUTTON) SPEAKER				
63	3B		K29-1518-04	KNOB BALANCE				
64	3A		K29-1511-04	KNOB ASSY PHONO				
65	3A		K29-1516-04	KNOB TONE				
66	3A		K29-1517-04	KNOB VOLUME				
67	2A		K29-1446-04	KNOB ASSY POWER				
68	3A		K29-1512-04	KNOB ASSY TUNER				
69	3A		K29-1514-04	KNOB ASSY TAPE A				
70	3A		K29-1515-04	KNOB ASSY TAPE B				
71	3A		K29-1513-04	KNOB ASSY AUX				
△ L1	1B		LO1-3394-05	POWER TRANSFORMER			K	
△ L1	1B		LO1-3392-05	POWER TRANSFORMER			E	
△ L1	1B		LO1-3396-05	POWER TRANSFORMER			UMUEX	
△ L1	1B		LO1-3396-05	POWER TRANSFORMER			T	
△ L1	1B		LO1-3397-05	POWER TRANSFORMER			P	
72	1D		N08-0128-35	BINDING POST				
△ S1	2B		S40-1075-05	PUSH SWITCH (POWER)				
△ S2	1D		S31-2001-05	SLIDE SWITCH (IMP SW)			UMUEX	
△ S2	1D		S31-2001-05	SLIDE SWITCH (IMP SW)			TE	
△ S2	1D		S31-2068-05	SLIDE SWITCH (IMP SW)			KP	
POWER AMP (X07-2090-12)								
C1 ,2			CE04FW1H010M	ELECTRO	1UF	50WV		
C3 ,4			CC45FSL1H221J	CERAMIC	220PF	J		
C5 ,6			CE04FW1A101M	ELECTRO	100UF	10WV		
C13 ,14			CC45FSL1H330J	CERAMIC	33PF	J		
C15 ,16			CC45FSL1H180J	CERAMIC	18PF	J		
C19 ,20			CC45FSL1H050C	CERAMIC	5.0PF	C		
C21			CE04FW1E220M	ELECTRO	22UF	25WV		
C31 ,32			CE04FW1H330M	ELECTRO	33UF	50WV		
C37 ,38			CE04FW1J101M	ELECTRO	100UF	63WV		
C39 -42			CF92FV1H104J	MF	0.10UF	J	TE	
C41 ,42			CF92FV1H473J	MF	0.047UF	J	KPUM	
C41 ,42			CF92FV1H473J	MF	0.047UF	J	UEX	
C51 ,52			CE04FW1E220M	ELECTRO	22UF	25WV		
C54			CE04FW1H100M	ELECTRO	10UF	50WV		
C55			CE04FW1H010M	ELECTRO	1UF	50WV		
△ C56 ,57			L90-1000-05	ELECTRO	7500UF	56WV		
C58 ,59			CK45E2H103P	CERAMIC	0.01UF	P		
C60			CE04FW1A221M	ELECTRO	220UF	10WV		
C61			CE04FW1A470M	ELECTRO	47UF	10WV		
101	2C	*	N09-0333-05	TAPPING SCREW				
R15 ,16		*	RD14AB2E181J	FL-PROOF RD	180	J 2E		
R21 ,22		*	RD14GB2E271J	FL-PROOF RD	270	J 2E		
R31 ,32		*	RS14GB3A332J	FL-PROOF RS	3.3K	J 3A		
R33 ,34		*	RS14GB3A472J	FL-PROOF RS	4.7K	J 3A		
R35		*	RD14GB2E330J	FL-PROOF RD	33	J 2E		

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R36		*	RD14AB2E330J	FL-PROOF RD 33		J	2E			
R37		*	RD14GB2E330J	FL-PROOF RD 33		J	2E			
R38		*	RD14AB2E330J	FL-PROOF RD 33		J	2E			
R39 , 40		*	RD14AB2E151J	FL-PROOF RD 150		J	2E			
R41		*	RD14AB2E331J	FL-PROOF RD 330		J	2E			
R42		*	RD14GB2E331J	FL-PROOF RD 330		J	2E			
R43 , 44		*	RD14AB2E331J	FL-PROOF RD 330		J	2E			
R49 , 50			R90-0187-05	MULTI-COMP 0.22X2		K	3H			
R59 , 60			RS14GB3D100J	FL-PROOF RS 10		J	3D			
R61 , 62		*	RD14AB2E820J	FL-PROOF RD 82		J	2E			
R72 , 73			RS14GB3D121J	FL-PROOF RS 120		J	3D			
R72 , 73			RS14GB3D121J	FL-PROOF RS 120		J	3D			
R72 , 73			RS14GB3D151J	FL-PROOF RS 150		J	3D			
R75			RS14GB3A222J	FL-PROOF RS 2.2K		J	3A			
R76			RS14GB3A272J	FL-PROOF RS 2.7K		J	3A			
△ R77			RS14GB3A331J	FL-PROOF RS 330		J	3D			
R78		*	RD14GB2H752J	FL-PROOF RD 7.5K		J	2H			
R84		*	RD14AB2E820J	FL-PROOF RD 82		J	2E			
R87			RS14GB3A122J	FL-PROOF RS 1.2K		J	3A			
VR1 , 2			R12-0087-05	TRIMMING POT. 200(B) BIAS						
RL1			S51-2060-05	MAGNETIC RELAY (PROTECTION)						
D5 , 6		*	RD18E(B2)	ZENER DIODE						
D10			1S1555	DIODE						
D10			1S2076	DIODE						
△ D11 , 14			GP25D	DIODE						
D15 , 16			STV-4H	VARISTOR						
D17			RD24E(B2)	ZENER DIODE						
D21			RD12E(B2)	ZENER DIODE						
IC1			UPC1237H	IC (PROTECTION)						
Q1 -4			2SA992(F,E)	TRANSISTOR (1ST AMP)						
Q5 -8			2SC1845(F,E)	TRANSISTOR (2ND AMP)						
Q17 , 18			2SC2591(R,S)	TRANSISTOR (DRIVER)						
Q19 , 20			2SA1111(R,S)	TRANSISTOR (DRIVER)						
△ Q21 , 22			2SC3263(N,Y)	TRANSISTOR (POWER)						
△ Q23 , 24			2SA1294(N,Y)	TRANSISTOR (POWER)						
Q25			2SC1827(N,Y)	TRANSISTOR (REGULATOR)						
Q26			2SA769(N,Y)	TRANSISTOR (REGULATOR)						
Q28			2SA999(E,F)	TRANSISTOR (POWER SUPPLY CNT.)						
Q30			2SC2003(L,K)	TRANSISTOR (REGULATOR)						
<b>TONE AMP (X11-1930-11)</b>										
D1 -4			B30-0499-05	LED (SELECTOR)						
D5			B30-0500-05	LED (TAPE B)						
D6			B30-0777-05	LED (PHONE REC)						
PL1			B30-0372-05	LAMP (POWER) 12V 0.11A						
C1 , 2			CE04FW1H100M	ELECTRO 10UF		50WV				
C3 , 4			CC45FSL1H101J	CERAMIC 100PF		J				
C3 , 4			CC45FSL1H101J	CERAMIC 100PF		J				
C3 , 4			CC45FSL1H221J	CERAMIC 220PF		J				
C5 , 6			CK45FB1H222K	CERAMIC 2200PF		K				
C5 , 6			CK45FB1H561K	CERAMIC 560PF		K				
C5 , 6			CK45FB1H561K	CERAMIC 560PF		K				
C7 , 8			CE04FW1A470M	ELECTRO 47UF		10WV				
C9 , 10			CF92FV1H123J	MF 0.012UF		J				
C11 , 12			CF92FV1H332J	MF 3300PF		J				

E: Scandinavia &amp; Europe H: Audio Club K: USA

P: Canada

S: South Africa

T: England U: PX(Far East, Hawaii)

UE: AAFES(Europe)

X: Australia M: Other Areas

▲ indicates safety critical components

# PARTS LIST

\* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格			Desti- nation 仕向	Re- marks 備考
C13 ,14			CEO4FW1H2R2M	ELECTRO	2.2UF	50WV		
C15 ,16			CEO4FW1H0R1M	ELECTRO	0.1UF	50WV		
C17 ,18			CF92FV1H333J	MF	0.033UF	J		
C19 ,20			CEO4FW1H3R3M	ELECTRO	3.3UF	50WV		
C21 ,22			CC45FSL1H221J	CERAMIC	220PF	J		
C23 -26			CK45FB1H561K	CERAMIC	560PF	K		
C27 -30			CEO4FW1H100M	ELECTRO	10UF	50WV		
C31 ,32			CF92FV1H104J	MF	0.10UF	J		
C33 ,34			CK45FB1H102K	CERAMIC	0.001UF	K		
C35 -40			CEO4FW1H100M	ELECTRO	10UF	50WV		
C41 ,42			CEO4FW1H2R2M	ELECTRO	2.2UF	50WV		
C43 -47			CK45FF1H103Z	CERAMIC	0.01UF	Z		
C49 -56			CK45FB1H561K	CERAMIC	560PF	K	TE	
C68 ,69			CEO4FW1H010M	ELECTRO	1UF	50WV		
C70 ,71			CK45FF1H103Z	CERAMIC	0.01UF	Z		
201	2B		E11-0135-05	PHONE JACK (HEADPHONE)				
203	1C		E13-0217-05	PHONE JACK (2P)				
206	1C		E20-0820-05	LOCK TERMINAL BOARD (SPEAKERS)				
-			E13-0434-05	PHONE JACK (4P)				
-			E13-0622-05	PHONE JACK (6P)				
L1 ,2			L39-0085-05	PHASE-COMPENSATION COIL				
R65 ,66			RD14GB2E2R2J	FL-PROOF RD	2.2	J 2E		
R67 ,68			RS14GB3D391J	FL-PROOF RS	390	J 3D		
R69			RS14GB3A560J	FL-PROOF RS	56	J 3A		
VR1			RD6-5087-05	POTENTIOMATER	100K	VOLUME		
VR2			RD1-5041-05	POTENTIOMATER	200K(W)	BALANCE		
VR4 ,5	*		RD6-5116-05	POTENTIOMATER	100K	TONE		
VR6 ,7	*		RD6-5117-05	POTENTIOMATER	100K	TURNOVER		
S1	*		S42-6016-05	MULTIPLE PUSH SWITCH (SELECTOR)				
S2	*		S40-2323-05	PUSH SWITCH (TONE)				
S3	*		S42-5037-05	PUSH SW(MODE, SP, LOUD, SUBSONIC)				
IC1			LA645BGG	IC (EQ AMP)				
IC2			AN6555	IC (TONE AMP)				
IC3			AN6556	IC (TONE AMP)				
Q1 -4			2SC1845(F,E)	TRANSISTOR (CONTROLLER)				
<b>POWER SUPPLY (X13-4340-11)</b>								
C1			CEO4FW1H4R7M	ELECTRO	4.7UF	50WV		
C3			CK45F1H103Z	CERAMIC	0.01UF	Z		
F1			F05-3121-05	FUSE (SEMKO)			E	
F1			F05-6021-05	FUSE (SEMKO)			UMUEX	
F1			F05-6027-05	FUSE (UL)			KP	
F2			F05-3022-05	FUSE (UL)			UMUEX	
F2			F05-3121-05	FUSE (SEMKO)			T	
-			J13-0041-05	FUSE CLIP			UMUEX	
-			J13-0055-05	FUSE CLIP			KPTE	
S1			S31-2083-05	SLIDE SWITCH (VOLTAGE)			UMUEX	
D1			WD6B	DIODE				

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